



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Smart materials, from molecular switches to motors

2526-116R-M12

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#### Obiettivi

The focus of the lectures is on molecular nanoscience, novel responsive materials, molecular switches and motors, inspired by Nature's principles of molecular assembly, recognition, transport, motion and catalysis. A second part of the program deals with the principle to fabricate porous architectures endowed with molecular dynamics in the solid state and on command gas capture and release by chemical and physical stimuli.

#### Contenuti sintetici

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#### Programma esteso

Module A: Porous Materials as a valid platform to promote ultrafast dynamics and functional properties in the solid state

Module B: From molecular switches to motors

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## **Prerequisiti**

## **Modalità didattica**

Module A requires 4 hours of frontal teaching.  
Module B requires 4 hours of frontal teaching

## **Materiale didattico**

Slides

## **Periodo di erogazione dell'insegnamento**

Last week of November 2025, first week of December 2025

## **Modalità di verifica del profitto e valutazione**

Brief report on a specific topics assigned by the teacher

## **Orario di ricevimento**

Write an email to [angiolina.comotti@unimib.it](mailto:angiolina.comotti@unimib.it)

## **Sustainable Development Goals**

ISTRUZIONE DI QUALITÀ

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